

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior version, and listings, of claims in this application:

Listing of Claims:

1. (Original) A method of forming and connecting an antenna to a feedthrough member of a housing, the method comprising the steps of:
 positioning the feedthrough member and an antenna template relative to each other;
 connecting a first portion of at least one electrically conducting wire to said feedthrough member;
 winding said wire at least once around the antenna template; and
 connecting a second portion of each wire to said feedthrough member.
2. (Cancelled)
3. (Currently Amended) ~~A method~~ The method according to claim 1, ~~any one of the preceding claims~~, wherein the step of positioning the feedthrough member and the antenna template relative to each other ~~includes~~ comprises:
 removably mounting the feedthrough member to a workspace member.
4. (Cancelled)
5. (Currently Amended) ~~A method~~ The method according to claim 1, ~~any one of claims 1 to 4~~, wherein the antenna template comprises a cylinder and the wound wire defines a circular locus.
6. (Currently Amended) ~~A method~~ The method according to ~~any one of the preceding claims~~, wherein the feedthrough member ~~comprises~~ comprises: a first portion and a second portion, the first and second portions being mountable or mounted in a chassis or wall of the housing.
7. (Currently Amended) ~~A method~~ The method according to claim 6, wherein each of the first or second portions have at least one conductive post extending therethrough.

8. (Currently Amended) ~~A method~~ The method according to claim 6, ~~claim 6 or 7~~, wherein the step of connecting the first portion of each wire to the feedthrough member comprises connecting the wire to the first portion of the feedthrough member, and the step of connecting a second portion of each wire to the feedthrough member comprises connecting the wire to the second portion of the feedthrough member.

9. (Cancelled)

10. (Currently Amended) ~~A method~~ The method according to claim 1, ~~any one of the preceding claims~~, wherein the first portion of the wire comprises an end of the wire.

11. (Currently Amended) ~~A method~~ The method according to claim 1, ~~any one of the preceding claims~~, wherein the second portion of the wire comprises a location along the wire that is distal from the first portion.

12. (Currently Amended) ~~A method~~ The method according to claim 1, ~~any one of the preceding claims~~, wherein more than one wire is connected to the feedthrough member and wound around the antenna template.

13. (Cancelled)

14. (Currently Amended) ~~A method~~ The method according to claim 1, ~~any one of the preceding claims~~, wherein the wire is formed from a biocompatible electrically conductive material.

15. (Currently Amended) ~~A method~~ The method according to claim 1, ~~any one of the preceding claims~~, wherein the wire is coated with an electrically insulating material.

16. (Currently Amended) ~~A method~~ The method according to claim 1, further comprising: any one of the preceding claims, wherein removing the formed antenna and the feedthrough member from the workspace member following completion of winding each wire and connecting the first and second portion of each wire to the feedthrough member, ~~the formed antenna and the feedthrough member are removed from the workspace member.~~

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17. (Currently Amended) ~~A method~~ The method according to claim 16, further comprising the step of comprising:

encapsulating the housing, feedthrough member and antenna in an electrically insulating material.

18. (Cancelled)

19. (Cancelled)

20. (Cancelled)

21. (Original) A method of forming a non-linear path of at least a portion of at least one electrically conducting wire extending between a first location and a second location, the method comprising the steps of:

forming a wire path template defining a non-linear path;

winding said wire through said template such that said wire adopts said non-linear path; and

removing the wire from said template.

22. (Currently Amended) ~~A method~~ The method according to claim 47, wherein the wire path template is removably mounted to a workspace member.

23. (Currently Amended) ~~A method~~ The method according to claim 21, ~~claim 21 or 22~~, wherein the wire path template is adapted to form an undulating wire path over said portion of the wire.

24. (Currently Amended) ~~A method~~ The method according to claim 23, wherein the wire path template comprises a series of spaced posts mounted to the workspace member that define the path about which the wire is to be wound.

25. (Currently Amended) ~~A method~~ The method according to claim 24, wherein the formed wire path is substantially sinusoidal.

26. (Currently Amended) ~~A method~~ The method according to any one of claims 23 to 25, comprising the additional step of removably mounting a feedthrough member of a housing to the workspace member.

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27. (Currently Amended) A method ~~The method~~ according to claim 26, wherein the feedthrough member comprises the first location.
28. (Currently Amended) A method ~~The method~~ according to claim 27, comprising the additional step of connecting the wire to the feedthrough member.
29. (Cancelled)
30. (Cancelled)
31. (Cancelled)
32. (Currently Amended) A method ~~The method~~ according to claim 21, ~~any one of claims 21 to 31~~, wherein the wire is formed from a biocompatible electrically conductive material.
33. (Currently Amended) A method ~~The method~~ according to claim 21, ~~further any one of claims 21 to 32~~, comprising the step of: ~~additional step of~~ coating the wire with an electrically insulating material.
34. (Cancelled)
35. (Cancelled)
36. (Cancelled)
37. (Cancelled)
38. (Currently Amended) A method ~~The method~~ according to claim 21, ~~any one of claims 21 to 37~~, wherein the method further includes the step of further comprising: encapsulating the feedthrough member and at least some of the wire in an electrically insulating material.
39. (Currently Amended) A method ~~The method~~ according to claim 38, further comprising the step of: ~~comprising the additional steps of~~

washing and drying the feedthrough member and the wire to render it suitable for implantation.

40. (Cancelled)

41. (Cancelled)

42. (Cancelled)

43. (Original) A method of forming a device comprised of a predetermined pattern of at least two relatively electrically conductive regions, the method comprising the steps of:

working a sheet of electrically conductive material to remove predetermined portions therefrom to form said two or more discrete relatively conducting regions;

connecting at least one electrically conducting wire to at least one of said at least two or more relatively conducting regions; and

connecting a portion of each wire located distal said conducting regions to a common sacrificial member.

44. (Currently Amended) The method ~~A-method~~ according to claim 43, wherein the step of working the sheet includes a step of punching the predetermined portions out of the sheet of electrically conductive material.

45. (Currently Amended) The method ~~A-method~~ according to claim 44, wherein the predetermined portions punched out of the sheet are removed and separated from the sheet.

46. (Currently Amended) The method ~~A-method~~ according to claim 43, wherein the step of working the sheet includes a step of slicing or cutting the predetermined portions out of the sheet of electrically conductive material.

47. (Currently Amended) The method ~~A-method~~ according to claim 43, wherein the step of working the sheet comprises a process of using electrical discharge machining (EDM) or spark erosion to remove said predetermined portions out of the sheet.

48. (Currently Amended) The method ~~A-method~~ according to claim 43, wherein the step of connecting each wire to the corresponding relatively conducting regions comprises a step of welding each wire to a respective relatively conducting region.

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49. (Cancelled)

50. (Cancelled)

51. (Currently Amended) The method ~~A-method~~ according to claim 50, wherein a proximal end of each wire is welded to the sacrificial member.

52. (Currently Amended) The method ~~A-method~~ according to claim 50, wherein the sacrificial member is in the form of a plate.

53. (Cancelled)

54. (Currently Amended) The method ~~A-method~~ according to ~~any one of claims 43 to 53;~~ claim 43, wherein each of the wires are individually welded to their respective conductive region and the sacrificial member.

55. (Cancelled)

56. (Currently Amended) The method ~~A-method~~ according to claim 55, wherein each wire is welded to the sacrificial member in a manner that allows ready identification as to which conductive region the wire is extending from.

57. (Currently Amended) The method ~~A-method~~ according to claim 56, wherein the proximal ends of the wires are aligned transversely along the sacrificial member.

58. (Cancelled)

59. (Cancelled)

60. (Cancelled)

61. (Currently Amended) The method ~~A-method~~ according to claim 48, ~~claim 48 or 50~~, wherein following the formation of the electrical connection between the wire and the conductive region and/or the sacrificial member, the device undergoes a coating step wherein at least the wires are encapsulated in an electrically insulative material.

62. (Currently Amended) The method ~~A-method~~ according to claim 61, wherein the coating step comprises passing the device through a parylene coater so as to coat at least parts of the device with a suitable layer of parylene.

63. (Currently Amended) The method ~~A-method~~ according to claim 62, wherein the electrically conductive regions are masked to prevent their coating with parylene.

64. (Cancelled)

65. (Cancelled)

66. (Cancelled)

67. (Cancelled)